

## ABSTRACT

A method for the treatment and prophylaxis of conditions of aging in humans, such conditions of aging associated with a decreased presence of cell-specific carbonic anhydrase enzymes in the brain, such as conditions associated with chronic neurodegenerative conditions including dementia such as Alzheimer's disease, which method includes the administering over an extended period of time, ranging from 6 months to 5 years, of a pharmaceutically effective, non-toxic amount of a compound that increases the presence of cell-specific carbonic anhydrase enzymes in the brain. That compound may be the cell-specific carbonic anhydrase enzyme, a compound that when absorbed by the body reacts or dissociates to form the cell-specific carbonic anhydrase enzyme, or a compound that promotes the natural generation of the cell-specific carbonic anhydrase enzyme within the body.